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10,000,000 CU. FT. GAS HOLDER—SAN FRANCISCO, CALIF. JAN 20 1930

IMUNOL



IMUNOL A for outside protection and appearance

IMUNOL B for interior protection

IMUNOL B for dry storage of dehydrated or natural gas

IMUNOL B for protection of under-water metal surfaces

INERTOL CO., INC. ~ 253 Broadway, New York, N. Y.

District Representatives in: Philadelphia, Pa.; Washington, D. C.; Pittsburgh, Pa.; Buffalo, N. Y.; Detroit, Mich.; Cleveland, Ohio; Omaha, Nebr.; Kansas City, Mo.; St. Louis, Mo.; Dallas, Tex.; San Antonio, Tex.; Louisville, Ky.; Charlotte, N. C.; Birmingham, Ala.; Nashville, Tenn.; Miami Beach, Fla.; San Francisco, Calif.

Outside Protection—Improved Appearance With IMUNOL

THE AMERICAN GAS JOURNAL, January 31, 1925, page 82, makes the following comment on experiences with IMUNOL applied to the outer surface of gas holders: It is a fact that there is strenuous objection to the erection of holders because of their reputed great ugliness and therefore it is well to have their appearance as prepossessing as possible. A freshly painted holder, clean looking, does not appear nearly so ugly as one from which the paint has started to peel. Hence there is a decided advantage in keeping the holder in a freshly painted appearance.

The MISSOURI POWER & LIGHT COMPANY, Jefferson City, Mo., reports on Dec. 15, 1927, about IMUNOL:

All paints which we have used heretofore have stained badly from the water but this compound does not take on the dirty yellow stains which have heretofore given us considerable trouble on our gas holders.

The NORTHERN INDIANA PUBLIC SERVICE COMPANY, Fort Wayne, Indiana, states about IMUNOL on May 25, 1929:

I am very well satisfied with same, both as to the appearance of the holder and the way in which it has covered up the rust spots.

The PEOPLES GAS COMPANY, Glasboro, N. J., expressed its delight and satisfaction with IMUNOL on May 20, 1929, as follows:

We are entirely satisfied with the use of this material and believe it is much superior to stopping corrosion to any form of paint that we have ever used.



Gas holders of the San Diego Consolidated Gas & Electric Co. protected against corrosion INSIDE AND OUT with IMUNOL.



GRAF ZEPPELIN with Hangers, and special Gas Plant. Friedrichshafen, Lake of Constance at the right.

The Zeppelin Works protecting their gas holders with IMUNOL inside and out wrote on Sept. 2, 1927:

In both instances, we have had perfect success, and we might add that IMUNOL is cheaper, and can be applied with greater facility, and so less time than other materials formerly used for us.

INERTOL CO., INC., 253 BROADWAY, NEW YORK, N. Y.

Interior Protection of Gas Holders With IMUNOL— Why Necessary

A statement by an engineer of a large Western gas company appearing in a recent issue of an American gas trade journal reads as follows:

"This holder has been in service 20 years. Inspection of the tank and lifts has shown many points where *corrosion* has *seriously attacked the metal*."

The Gas Journal, London, of November 28, 1928, reprints a paper on Holder Corrosion. Two brief quotations will suffice:

"The sheeting of the holder... is the thinnest material used in the whole structure and is subject to both external and *internal* deterioration . . ."

"It deteriorated very rapidly. This clearly showed that it was the composition of the gas which effected *internal* corrosion . . ."

... When it was opened up, he again had an opportunity of inspecting the holder, and the sheets were then *very badly corroded*."

In reviewing an article on Interior Corrosion the American Gas Journal of October 31, 1925, states on page 509:

"It has generally been held that the corrosion of the gas holder is mostly external... However, recent articles in this and other trade papers and technical journals have shown that there is some corrosion as well of the internal metallic surface of the holder."

A prominent gas engineer, discussing "Interior Corrosion and Its Remedy," in American Gas Journal of October 31, 1925, page 509, writes:

Section of a Gas Holder



Before IMUNOL Was Applied

After IMUNOL had been applied the responsible Gas Engineer for the respective gas company, located on the Pacific Coast, wrote on February 14, 1929: "I firmly believe that if IMUNOL had not been applied that by this time this holder would have failed due to excessive corrosion."

... However, a substance has been discovered, which has been described in a former issue of the American Gas Journal, which is known as IMUNOL and which is composed of bituminous ingredients which are absolutely unacted upon by chemical reagents . . .

It was found that the bituminous preparation adhered very tenaciously to the walls of the holder. This adhesion is so great that a dry iron plate, which is dipped into water on the surface of which there is a layer of bituminous preparation, is covered with the preparation even when the plate is moved very rapidly through the water mixture. The result is that when the holder rises the greatest part of the protective liquid is drawn along with the wall . . .

Furthermore, the oily preparation covers the walls of the holder and fills up the cracks which are present between the rivet connections and the like so that a film of impervious liquid is formed which prevents the leakage of gas through these fine openings."

The yellowish discoloration of the tank water is an indication and the best gauge for determining the extent of interior corrosion on gas holders.

An interior application of IMUNOL positively conquers interior corrosion, that insidious, invisible and uncontrollable enemy of gas holders.

IMUNOL for Dry Storage of

Preventing saturation of gas with water vapor by means of IMUNOL results in the preservation of mains and distribution system.

1927 proceedings of Pacific Coast Gas Association, page 345-6-9:

"The simplest remedy for corrosion (of pipe lines) seems to be removal of moisture"

... "The primary action is the electro-chemical dissolving of iron by water condensed from the gas".

"... The gas before entering the holder, was found to contain .01623 gal. of water vapor per 1000 cu. ft. and after passing through the holder contained .03898 gal. per 1000 cu. ft. This test indicated that the gas picked up considerable moisture while in the holder. . ."

The Consolidated Steel Works, August Thyssen Plant, Dinslaken, Rhineland, wrote on August 29, 1927, about dry storage of gas with IMUNOL:

... The sealing layer of IMUNOL is impermeable to moisture. Therefore we always have perfectly dry gas. Furthermore we have established that IMUNOL shows no trace of evaporation at 59°-86° F. Consequently there is no contamination of the gas due to IMUNOL fumes.

On account of these qualities the use of IMUNOL has resulted in our entire satisfaction.

Southern Counties Gas Company
Gas Plant, Venice, California



IMUNOL is used in this plant for EXTERIOR PROTECTION
holder, also for INTERIOR AND EXTERIOR PROT
OF GAS in an 8,000,000 cu.

INERTOL CO., INC. - 253 BRO.

e of Natural or Dehydrated Gas Is

LAND, CALIFORNIA



TECTION of a 6,000,000 cu. ft. and a 2,000,000 cu. ft. gas
OR PROTECTION AND FOR DRY STORAGE
000,000 cu. ft. gas holder.

253 BROADWAY, NEW YORK, N. Y.

The distribution of gas which has saturated itself with water vapor in the gas holder causes accelerated pipe depreciation, drip pumping, freezing and meter deterioration. These resulting losses will exceed by far the cost of dry storage with IMUNOL, not mentioning the effect on Public Relations.

The German Continental Gas Co., Dessau, (Deutsche Continental Gas Gesellschaft), a huge gas concern of the gigantic German long distance central gas supply system, established the unrivaled advantages of IMUNOL when selecting, specifying and purchasing IMUNOL for the dry storage of gas, which is being supplied to many cities in Germany through high pressure mains. (See Gas Journal, London, September 26, 1928, page 647.)

COAST COUNTIES GAS & ELECTRIC CO.

Management Supervised by
U. S. Engineering Corporation
Alta Building
Santa Cruz, Calif.

Dear Sir:

February 14, 1929

For the past year we have used IMUNOL on three of the holders of the Coast Counties Gas & Electric Co., namely, on 30,000 feet relief holder located at Santa Cruz and on two 75,000 feet two lift holders located at Pittsburg.

For your information we are entirely satisfied with this material as we believe that all corrosion has been definitely stopped and our cost of maintenance has been materially reduced due to the lack of necessity of painting each year.

Gas Works, Pittsburg, California



Some interesting foreign and domestic gas holders safeguarded
against corrosion by the use of IMUNOL



Gas Works, Vienna, Austria
Water sealed Gas Holders inside of these brick buildings
protected with IMUNOL



Gas Holders, Modesto, California,
protected with IMUNOL

IMUNOL protects immense investments
in gas holders the world over by
preventing corrosion.



Gas Works, Gablonz, Czechoslovakia
Holders protected with IMUNOL

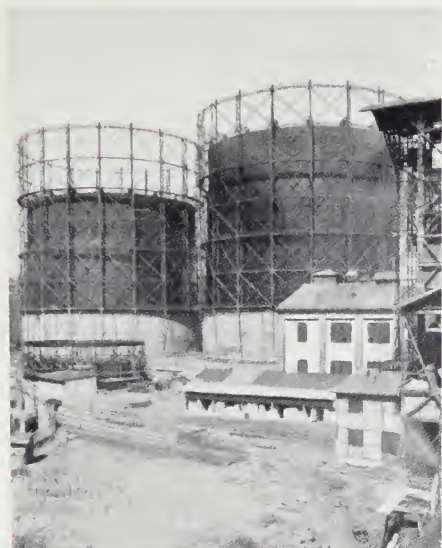


Gas Holder in the Ruhr District, Germany,
protected with IMUNOL

Other foreign gas companies are using IMUNOL for Holder protection in England, France,
Sweden, Holland, Hungary, South America, Australia, Africa, etc.

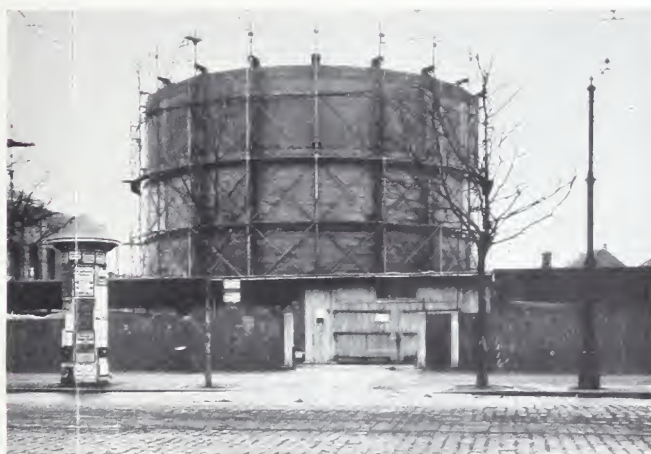
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Some German gas holders protected with IMUNOL inside and out



Municipal Gas Works, Stuttgart

The *Municipal Gas Works, Stuttgart*, effected savings of 59% on the costs of application and 74% on the yearly maintenance costs with the use of IMUNOL, according to their essays on Modern Holder Protection in "Das Gas und Wasserfach" Vol. 16, 1924, page 216, Vol. 31, 1925, page 475, Vol. 18, March 30, 1929.



Gas Works, Leipzig, Germany



Gas Works, Bonn on the Rhine



Gas Works, Berlin-Spandau



Gas Works, Heidelberg, Germany

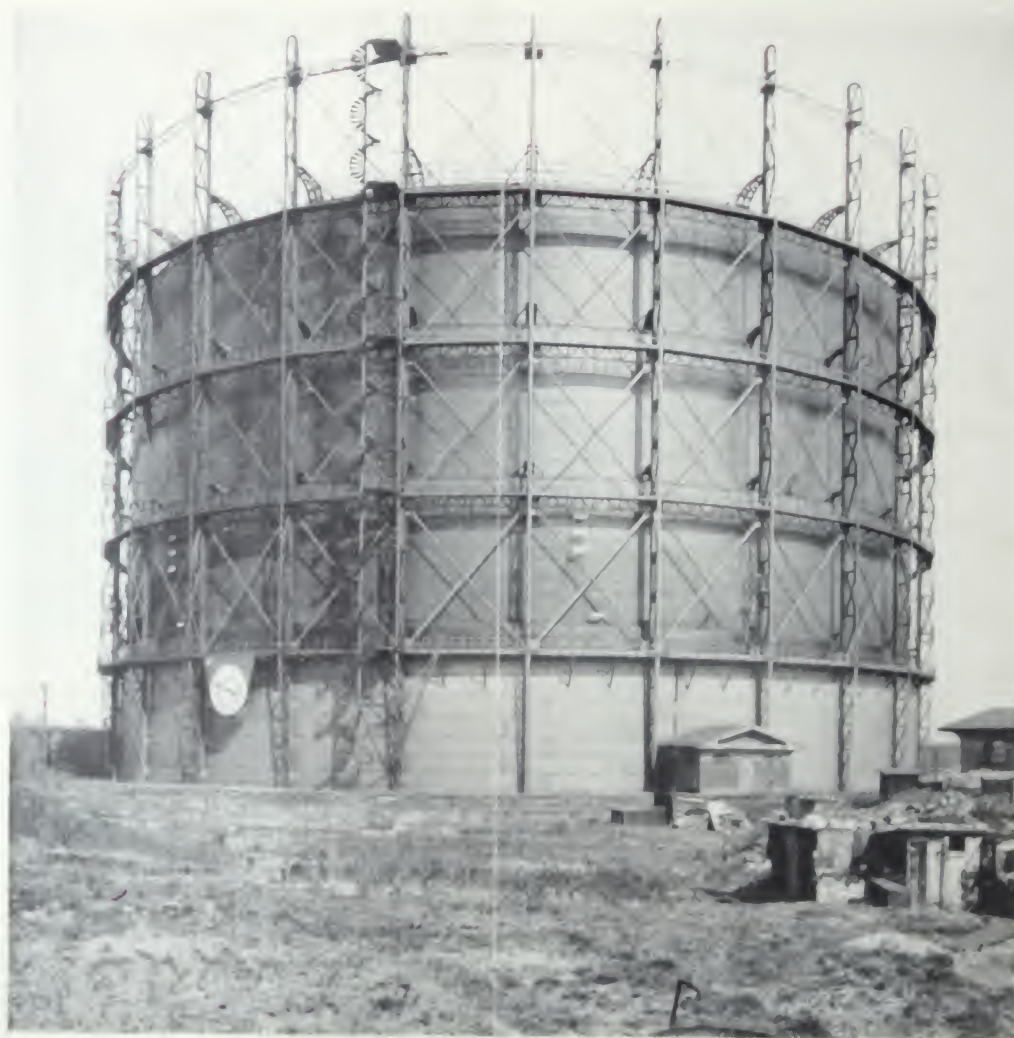
Other prominent users in Germany: Gas works of Consolidated Steel Works, Thyssen Huette, I. G. Farbenindustrie in Merseburg and Hoechst (famous German Dye Trust).

Some of the larger gas works: Berlin, Bochum, Cassel, Chemnitz, Essen, Frankfurt-Heddenheim, Halle, Hamburg, Hannover, Karlsruhe, Luebeck, Magdeburg, Stettin, Worms, etc., etc.

*"It is false economy to use inferior paints, which are deficient
in lasting properties"—Gas Journal, London.*

Therefore use **IMUNOL** For Exterior Protection
For Interior Protection
For Dry Storage of Gas

Imunol is not an experiment but a proven success the world over.



Gas Holder in Berlin Charlottenburg, Germany

INERTOL CO., INC.

253 BROADWAY

NEW YORK, N. Y.

American Plant: Newark, N. J.

Others in Germany, France, Switzerland, Austria and Australia

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